Senator Howard A. Stephenson proposes the following substitute bill:

1	COMPUTER SCIENCE INITIATIVE FOR PUBLIC SCHOOLS
2	2016 GENERAL SESSION
3	STATE OF UTAH
4	Chief Sponsor: Howard A. Stephenson
5	House Sponsor: Bradley G. Last
6 7	LONG TITLE
8	General Description:
9	This bill enacts provisions regarding computer science instruction in public schools.
10	Highlighted Provisions:
11	This bill:
12	defines terms;
13	creates the computer science initiative;
14	 requires the STEM Action Center Board and the State Board of Education to
15	collaborate to develop and implement the initiative; and
16	 requires the STEM Action Center Board to include information on the initiative in
17	the board's annual report to the Education Interim Committee.
18	Money Appropriated in this Bill:
19	This bill appropriates:
20	► to the State Board of Education - State Office of Education - Initiative Programs, as
21	an ongoing appropriation:
22	• from the Education Fund, \$630,000; and
23	► to the Governor's Office of Economic Development - STEM Action Center, as an
24	ongoing appropriation:
25	• from the General Fund, \$140,000.



Oth	er Special Clauses:
	This bill provides a special effective date.
Utal	n Code Sections Affected:
ENA	ACTS:
	63N-12-213, Utah Code Annotated 1953
Be it	enacted by the Legislature of the state of Utah:
	Section 1. Section 63N-12-213 is enacted to read:
	63N-12-213. Computer science initiative for public schools.
	(1) As used in this section:
	(a) "Computational thinking" means the set of problem-solving skills and techniques
that	software engineers use to write programs that underlie computer applications, including
<u>deco</u>	emposition, pattern recognition, pattern generalization, and algorithm design.
	(b) "Computer coding" means the process of writing script for a computer program or
mob	ile device.
	(c) "Educator" means the same as that term is defined in Section 53A-6-103.
	(d) "Endorsement" means a stipulation, authorized by the State Board of Education and
appe	ended to a license, that specifies the areas of practice to which the license applies.
	(e) (i) "Institution of higher education" means the same as that term is defined in
Sect	ion 53B-3-102.
	(ii) "Institution of higher education" includes the Utah College of Applied Technology.
	(f) "Employer" means a private employer, public employer, industry association, union,
or th	e military.
	(g) "License" means the same as that term is defined in Section 53A-6-103.
	(h) "Stackable sequence of credentials" means a sequence of credentials that:
	(i) an individual can build upon to access an advanced job or higher wage;
	(ii) is part of a career pathway system;
	(iii) provides a pathway culminating in the equivalent of an associate's or bachelor's
degr	
	(iv) facilitates multiple exit and entry points; and
	(v) recognizes sub-goals or momentum points.

57	(2) On behalf of the board, the staff of the board and the staff of the State Board of
58	Education shall collaborate to develop and implement a computer science initiative for public
59	schools by:
60	(a) creating an online repository that:
61	(i) is available for school districts and charter schools to use as a resource; and
62	(ii) includes high quality computer science instructional resources that are designed to
63	teach students in all grade levels:
64	(A) computational thinking skills; and
65	(B) computer coding skills;
66	(b) providing for professional development on teaching computer science by:
67	(i) including resources for educators related to teaching computational thinking and
68	computer coding in the STEM education high quality professional development application
69	described in Section 63N-12-210; and
70	(ii) providing statewide or regional professional development institutes; and
71	(c) awarding grants to a school district or charter school, on a competitive basis, that
72	may be used for the purposes described in Subsection (4).
73	(3) A school district or charter school may enter into an agreement with one or more of
74	the following entities to jointly apply for a grant under Subsection (2)(c):
75	(a) a school district;
76	(b) a charter school;
77	(c) an employer;
78	(d) an institution of higher education; or
79	(e) a non-profit organization.
80	(4) A grant described in Subsection (2)(c) may be used for the following purposes
81	related to computer science:
82	(a) providing incentives for an educator to earn a computer science endorsement;
83	(b) conducting industry engagement activities;
84	(c) providing face-to-face mentoring, coaching, or training;
85	(d) creating a stackable sequence of credentials; or
86	(e) conducting student outreach, recruitment, and retention efforts.
87	(5) To apply for a grant described in Subsection (2)(c), a school district or charter

88	school shall submit a plan to the State Board of Education for the use of the grant, including a
89	statement of purpose that describes the learning objectives, goals, and measurable outcomes the
90	school district or charter school will accomplish by conducting one or more of the purposes
91	described in Subsection (4).
92	(6) The board and the State Board of Education shall encourage schools to
93	independently pursue computer science and coding initiatives, subject to local school board or
94	charter school governing board approval, based on the unique needs of the school's students.
95	(7) The board shall include information on the status of the computer science initiative
96	in the annual report described in Section 63N-12-208.
97	Section 2. Appropriation.
98	Under the terms and conditions of Title 63J, Chapter 1, Budgetary Procedures Act, for
99	the fiscal year beginning July 1, 2016, and ending June 30, 2017, the following sums of money
100	are appropriated from resources not otherwise appropriated, or reduced from amounts
101	previously appropriated, out of the funds or amounts indicated. These sums of money are in
102	addition to amounts previously appropriated for fiscal year 2017.
103	To State Board of Education State Office of Education Initiative Programs
104	From Education Fund \$630,000
105	Schedule of Programs:
106	Computer Science Initiative \$630,000
107	To Governor's Office of Economic Development — STEM Action Center
108	From General Fund \$140,000
109	Schedule of Programs:
110	STEM Action Center \$140,000
111	The Legislature intends that:
112	(1) the State Board of Education use:
113	(a) at least \$620,000 of the appropriation provided in this section for grants described
114	in Subsection 63N-12-213(2)(c), including at least \$320,000 for providing incentives described
115	in Subsection 63N-12-213(4)(a); and
116	(b) up to \$10,000 of the appropriation provided in this section for administration of the
117	initiative described in Section 63N-12-213;
118	(2) the Governor's Office of Economic Development use the appropriation provided in

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119	this section to meet the requirements described in Subsections 63N-12-213(2)(a) and (b); and
120	(3) under Section 63J-1-603, appropriations under this section not lapse at the close of
121	fiscal year 2017.
122	Section 3. Effective date.
123	If approved by two-thirds of all the members elected to each house, this bill takes effect
124	upon approval by the governor, or the day following the constitutional time limit of Utah
125	Constitution, Article VII, Section 8, without the governor's signature, or in the case of a veto,
126	the date of veto override.